

ABSTRACT

A method and apparatus of the present invention support operation of a device, such as a WLAN device in a plurality of frequency bands. The WLAN selects a frequency band of operation by determining a quality indicator. The quality indicator for the selected frequency range considers a channel power and interference power for the selected frequency range. The WLAN further selects a communication protocol. The inventive WLAN devices includes a first baseband processor interface, a first radio for receiving the digital data and for transmitting RF signals, a second baseband processor interface and a second radio for receiving the digital data and for transmitting RF signals in a first frequency band and for receiving RF signals in the first frequency band and for producing corresponding digital data to the second baseband processor interface.